

(a) receiving said audible sounds in the form of an electrical output of said microphone;

(b) converting said electrical output corresponding to a particular audible sound into a digital representation of said particular audible sound;

(c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine which of said known audible sounds is most likely to be the particular audible sound being compared to the sounds in said database;

(d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

B1 (e) receiving an error indication from said user indicating that there is an error in recognition;

(f) receiving from said user an indication of the proper alphanumeric representations of said particular audible sound;

(g) determining whether said error is a result of a known type or instance of mispronunciation; and

(h) in response to a determination of error corresponding to a known type or instance of mispronunciation, presenting an interactive training program from said computing device to said user to enable said user to correct such mispronunciation.

B2 7. (amended) A method of speech recognition as in claim 1, wherein said database consisting of (i) digital representations of known audible sounds and associated alphanumeric representations of said known audible sounds and (ii) digital representations of known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases, is generated by the steps of speaking and digitizing on a second computer said known audible sounds and said known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases, and transferring the same to said first computing device.

B3 12. (amended) A method of speech recognition as in claim 1, wherein said user is presented with an interactive training program in response to the detection of repeated instances or a reliable single instance of pronunciation error.

14. (amended) A method of speech recognition using a microphone to receive audible sounds input by a user into a first computing device having a program with a database consisting of (i) digital representations of known audible sounds and associated alphanumeric representations of said known audible sounds and (ii) digital representations of known audible sounds corresponding to mispronunciations resulting from known classes of mispronounced words and phrases, comprising the steps of:

(a) receiving said audible sounds in the form of the electrical output of said microphone;

B4 (b) converting a particular audible sound into a digital representation of said audible sound;

(c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine which said known audible sounds is most likely to be the particular audible sound being compared to the sounds in said database;

(d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

(e) determining whether there is an error in pronunciation to generate an error indication indicating that there is an error in recognition;

(f) determining whether said error is a result of a known type or instance of mispronunciation in response to the detection of repeated instances or a reliable single instance of mispronunciation; and

(g) in response to a determination of error corresponding to a known type or instance of mispronunciation, presenting an interactive training program from said computer to said user to enable said user to correct such mispronunciation in accordance with Lessac techniques.

BS 19. (amended) A method of speech recognition using a microphone to receive audible sounds input by a user into a computing device coupled to said microphone, said computing device having a program with a database comprising (i) digital representations of known audible sounds corresponding to proper pronunciations of words and phrases and associated alphanumeric representations of said known audible sounds corresponding to proper pronunciations of words and phrases and (ii) digital representations of known audible sounds corresponding to mispronunciations, comprising the steps of:

(a) receiving said audible sounds in the form of an electrical output of said microphone;

(b) converting said electrical output corresponding to a particular audible sound into a digital representation of said particular audible sound;

(c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine a match with the one of said known audible sounds most likely to be the particular audible sound being compared to the sounds in said database;

(d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

(e) outputting an error indication in response to a match with a known audible sound corresponding to a known mispronunciation; and

(f) in response to a determination of error corresponding to a known mispronunciation, presenting an interactive training program from said computing device to said user to enable said user to correct such mispronunciation.

Please ADD new Claims 20-27 as follows:

20. (new) A method of speech recognition using a microphone to receive audible sounds input by a user into a computing device coupled to said microphone, said computing device having a program with a database comprising (i) digital representations of known audible sounds corresponding to proper pronunciations of

phonemes and associated alphanumeric representations of said known audible sounds corresponding to proper pronunciations of phonemes and (ii) digital representations of known audible sounds corresponding to mispronunciations, comprising the steps of:

(a) receiving said audible sounds in the form of an electrical output of said microphone;

(b) converting said electrical output corresponding to a particular audible sound into a digital representation of said particular audible sound;

(c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine a match with the one of said known audible sounds most likely to be the particular audible sound being compared to the sounds in said database;

(d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

B6 (e) outputting an error indication in response to a match with a known audible sound corresponding to a known mispronunciation; and

(f) in response to a determination of error corresponding to a known type or instance of mispronunciation, giving the user the option of receiving speech training or training said program to recognize the user's speech pattern; and

(g) in response to exercise of said option, presenting an interactive training program from said computing device to said user to enable said user to correct such mispronunciation.

21. (new) A method of speech recognition using a microphone to receive audible sounds input by a user into a computing device coupled to said microphone, said computing device having a program with a database comprising (i) digital representations of known audible sounds corresponding to proper pronunciations of phonemes and associated alphanumeric representations of said known audible sounds corresponding to proper pronunciations of phonemes and (ii) digital representations of known audible sounds corresponding to mispronunciations, comprising the steps of:

(a) forming a database by (i) having a person, who normally speaks said known

audible sounds properly, speak said known audible sounds, and digitizing said known audible sounds spoken by said person who properly speaks said known audible sounds; and (ii) having a person who usually speaks said known audible sounds corresponding to mispronunciations and digitizing said known audible sounds spoken by said person who usually speaks said known audible sounds corresponding to mispronunciations;

(b) receiving said audible sounds in the form of an electrical output of said microphone receiving speech to be recognized;

(c) converting said electrical output corresponding to a particular audible sound into a digital representation of said particular audible sound;

bb (d) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine a match with the one of said known audible sounds most likely to be the particular audible sound being compared to the sounds in said database;

(e) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

(f) outputting an error indication in response to a match with a known audible sound corresponding to a known mispronunciation; and

(g) in response to a determination of error corresponding to a known mispronunciation, presenting an interactive training program from said computing device to said user to enable said user to correct such mispronunciation.

22. (new) A method of speech recognition using a microphone to receive audible sounds input by a user into a computing device coupled to said microphone, said computing device having a program with a database comprising (i) digital representations of known audible sounds corresponding to proper pronunciations of phonemes and associated alphanumeric representations of said known audible sounds corresponding to proper pronunciations of phonemes and (ii) digital representations of known audible sounds corresponding to mispronunciations, comprising the steps of:

(a) receiving said audible sounds in the form of an electrical output of said

microphone receiving speech to be recognized;

(b) converting said electrical output corresponding to a particular audible sound into a digital representation of said particular audible sound;

(c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine a match with the one of said known audible sounds most likely to be the particular audible sound being compared to the sounds in said database;

(d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

(e) outputting an error indication in response to a match with a known audible sound corresponding to a known mispronunciation; and

Bb (f) in response to a determination of error corresponding to a known mispronunciation, presenting an interactive training program from said computing device to said user to enable said user to correct such mispronunciation using Lessac System techniques.

23. (new) A method of speech recognition using a microphone to receive audible sounds input by a user into a computing device coupled to said microphone, said computing device having a program with a database comprising (i) digital representations of known audible sounds corresponding to proper pronunciations of phonemes and associated alphanumeric representations of said known audible sounds corresponding to proper pronunciations of phonemes and (ii) digital representations of known audible sounds corresponding to mispronunciations, comprising the steps of:

(a) receiving said audible sounds in the form of an electrical output of said microphone receiving speech to be recognized;

(b) converting said electrical output corresponding to a particular audible sound into a digital representation of said particular audible sound;

(c) comparing said digital representation of said particular audible sound to said digital representations of said known audible sounds to determine a match with the one of said known audible sounds most likely to be the particular audible sound being

compared to the sounds in said database;

(d) outputting as a speech recognition output the alphanumeric representations associated with said audible sound most likely to be said particular audible sound;

(e) outputting an error indication in response to a match with a known audible sound corresponding to a known mispronunciation; and

(f) in response to the detection of repeated instances or a reliable single instance of pronunciation error, presenting an interactive training program from said computer to said user to enable said user to correct such mispronunciation.

24. (new) A method of speech recognition as in claim 23, wherein said presenting an interactive training program from said computer to said user to enable said user to correct such mispronunciation is optional and is performed when elected by the user.

25. (new) A method of speech recognition as in claim 21, wherein said user is presented with an interactive training program in response to the detection of repeated instances or a reliable single instance of pronunciation error.

26. (new) A method of speech recognition as in claim 22, wherein said user is presented with an interactive training program in response to the detection of repeated instances or a reliable single instance of pronunciation error.

27. (new) A method of speech recognition as in claim 22, wherein said database comprising (i) digital representations of known audible sounds corresponding to proper pronunciations of phonemes and associated alphanumeric representations of said known audible sounds corresponding to proper pronunciations of phonemes and (ii) digital representations of known audible sounds corresponding to mispronunciations is formed by (i) having a person, who normally speaks said known audible sounds properly, speak said known audible sounds, and digitizing said known audible sounds spoken by said person who properly speaks said known audible sounds; and (ii) having a person who usually speaks said known audible sounds

corresponding to mispronunciations and digitizing said known audible sounds spoken
by said person who usually speaks said known audible sounds corresponding to
mispronunciations.
